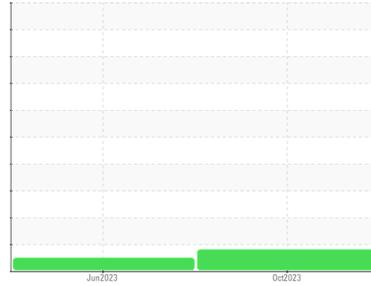




# PROBLEM SUMMARY

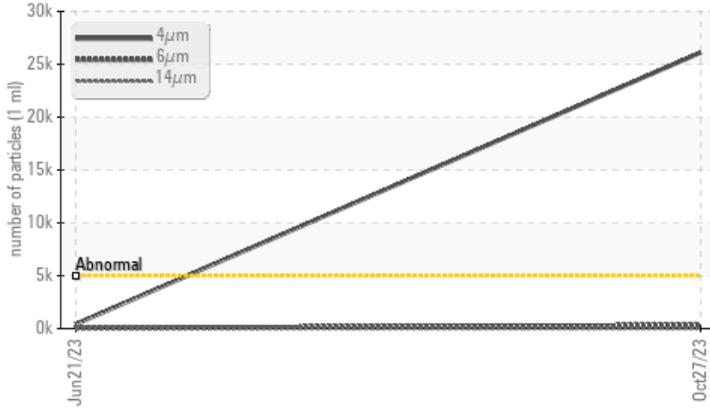
Area  
**[187058-N2STV4W]**  
 Machine Id  
**TEST STAND 23**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS 32 (250 GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 26107	418	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/16/10	16/13/9	---	---
PrtFilter						no image

Customer Id: PARMAROH  
 Sample No.: PH05995555  
 Lab Number: 05995555  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**21 Jun 2023 Diag: Jonathan Hester**

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

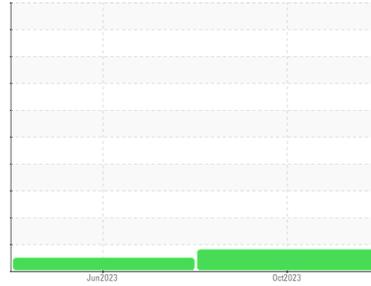
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**[187058-N2STV4W]**  
 Machine Id  
**TEST STAND 23**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS 32 (250 GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PH05995555</b>	PH05918524	---
Sample Date	Client Info	<b>27 Oct 2023</b>	21 Jun 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	NORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>10</b>	2
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	0
Copper	ppm	ASTM D5185m >20	<b>11</b>	12
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185m 11	<b>11</b>	3
Calcium	ppm	ASTM D5185m 35	<b>3</b>	0
Phosphorus	ppm	ASTM D5185m 259	<b>269</b>	283
Zinc	ppm	ASTM D5185m 277	<b>228</b>	233
Sulfur	ppm	ASTM D5185m 1865	<b>593</b>	702

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>2</b>	1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 26107</b>	418	---
Particles >6µm	ASTM D7647 >1300	<b>323</b>	43	---
Particles >14µm	ASTM D7647 >160	<b>6</b>	2	---
Particles >21µm	ASTM D7647 >40	<b>3</b>	0	---
Particles >38µm	ASTM D7647 >10	<b>1</b>	0	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 22/16/10</b>	16/13/9	---

## FLUID DEGRADATION

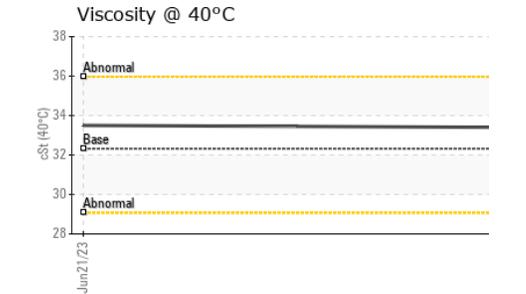
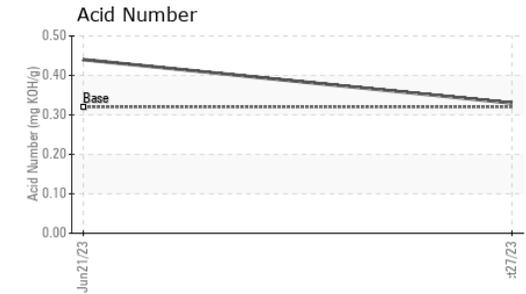
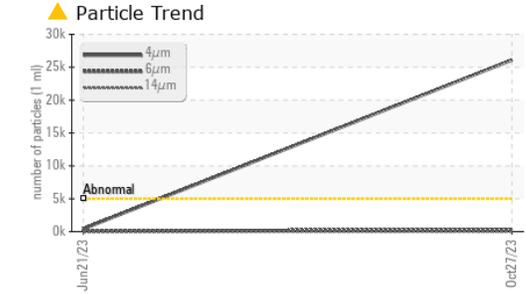
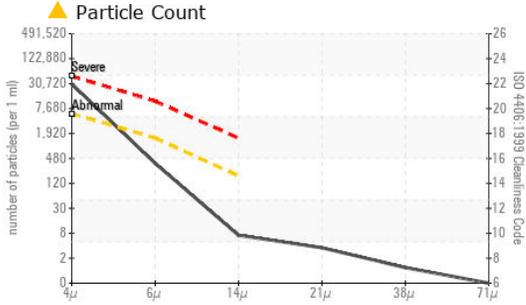
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.32	<b>0.33</b>	0.44

Particle Filter (Magn: 200 x)





# OIL ANALYSIS REPORT



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH05995555 **Received** : 01 Nov 2023  
**Lab Number** : 05995555 **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10723915 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

**PARKER HANNIFIN HPS**  
 14249 INDUSTRIAL PKWY  
 MARYSVILLE, OH  
 US 43040  
 Contact: BRAD NICOL  
 benicol@parker.com  
 T: (937)644-4575  
 F:

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	33.4	33.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image
PrtFilter					no image

## GRAPHS

